

NPDES Permit No. IL0074438  
Notice No. LRL:13071001.daa

Public Notice Beginning Date: **August 16, 2013**

Public Notice Ending Date: **September 16, 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:

Cordova Energy Company, LLC  
24712 192nd Avenue North  
Cordova, Illinois 61242

Name and Address of Facility:

Cordova Energy Company, LLC  
24712 192nd Avenue North  
Cordova, Illinois 61242  
(Rock Island 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 Leslie Lowry at 217/782-0610.

The applicant is engaged in the operation of two combined cycle combustion turbines that have a combined output of approximately 537 MW under standard conditions (SIC 4911). Plant operation results in an average discharge of 0.13 MGD of total plant effluent from outfall 001, 0.109 MGD of cooling tower blowdown from internal outfall A01, and 0.0105 MGD of low volume waste from internal outfall B01.

Application is made for existing discharges which are located in Rock Island 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	Mississippi River	41° 41' 31"	North	90° 18' 48"	West	General Use	Not Rated

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

The stream segment M-02 receiving the discharge from outfall 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>Potential Cause:</u>	<u>Designated Use:</u>
Mercury, PCBs, and Manganese	Fish Consumption and Public and Food Processing Water Supply

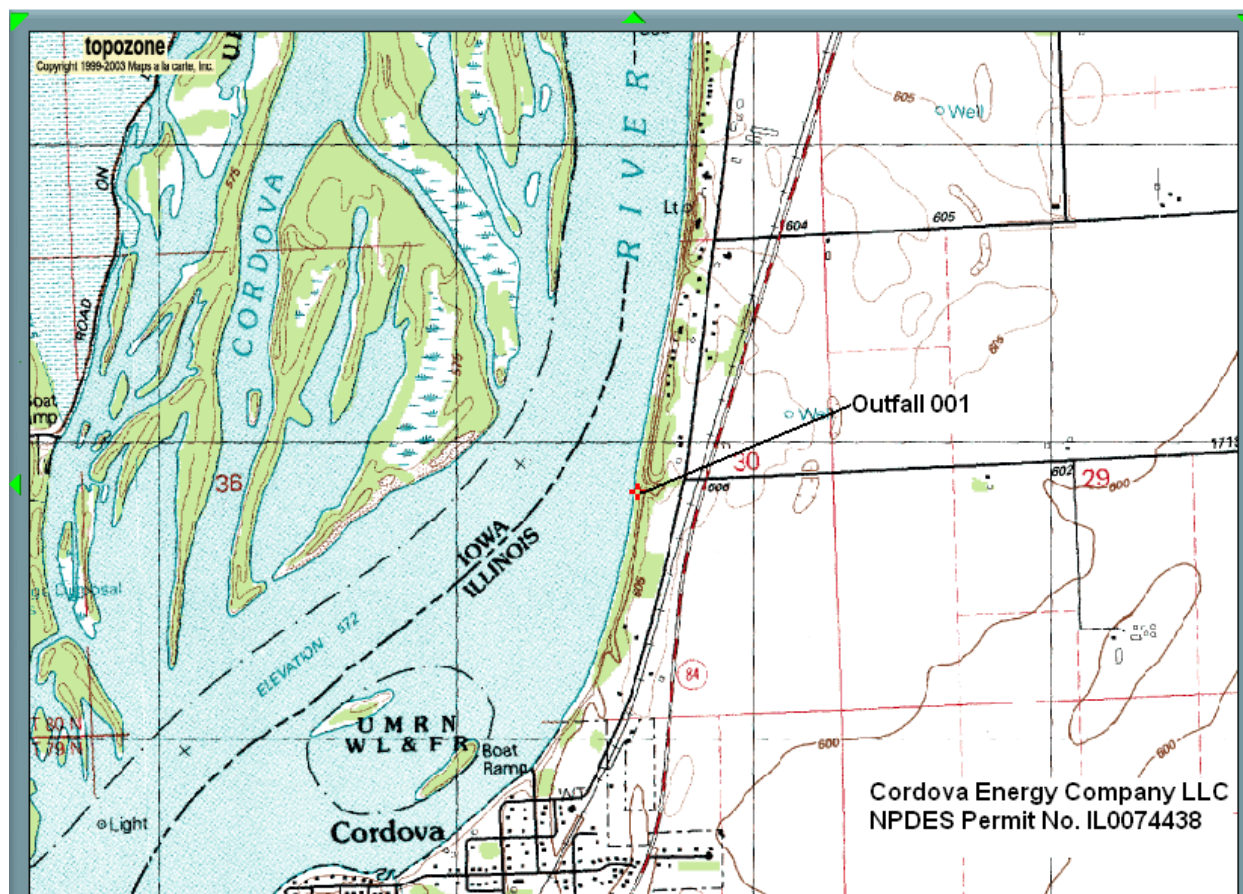
The discharges from the facility shall be monitored and limited at all times as follows:

	LOAD LIMITS lbs/day DAF (DMF)			CONCENTRATION LIMITS mg/l		
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION
<u>Outfall 001:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature						35 IAC 303.331
Total Residual Chlorine					0.05	35 IAC 302.208 and 40 CFR 125.3
Copper				0.017	0.027	40 CFR 122.44(L)
Chromium (Hexavalent)				0.011	0.016	35 IAC 302.208
Arsenic				0.19	0.36	35 IAC 302.208
Chloride				Monitor Only		
<u>Outfall A01:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Chromium (Total)				0.2	0.2	40 CFR 423
Zinc				1	1	40 CFR 423
126 Priority Pollutants				No Detectable Amounts		40 CFR 423

	LOAD LIMITS lbs/day DAF (DMF)			CONCENTRATION LIMITS mg/l		
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION
<u>Outfall B01:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Oil & Grease				15	20	40 CFR 423

The following explain the conditions of the proposed permit:

The Special Conditions clarify flow, pH, temperature, Total Residual Chlorine, monitoring location, additives, 126 priority pollutants, and discharge monitoring report submission.



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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:

Cordova Energy Company, LLC  
24712 192nd Avenue North  
Cordova, Illinois 61242  
(Rock Island County)

Facility Name and Address:

Cordova Energy Company, LLC  
24712 192nd Avenue North  
Cordova, Illinois 61242  
(Rock Island County)

Discharge Number and Name:

001 Total Plant Effluent  
A01 Cooling Tower Blowdown  
B01 Low Volume Waste

Receiving Waters:

Mississippi 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 discharges 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
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
<u>Outfall 001 – Total Plant Effluent</u> (Average Flow = 0.13 MGD)  The discharge consists of: 1. Low Volume Waste (B01) 2. Cooling Tower Blowdown (A01) 3. Cooling Mixing Water 4. Groundwater						
Flow (MGD)	See Special Condition 1.				Daily	Continuous
pH	See Special Condition 2.				1/Month	Grab
Temperature	See Special Condition 3.				Daily	Continuous
Total Residual Chlorine	See Special Condition 4.			0.05	1/Month	Grab
Copper			0.017	0.027	1/Month	Composite
Chromium (Hexavalent)			0.011	0.016	1/Month	Grab
Arsenic			0.19	0.36	1/Month	Composite
Chloride			Monitor Only		1/Month	Measure

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Effluent Limitations and Monitoring

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	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Outfall A01 – Cooling Tower Blowdown** (Average Flow = 0.109 MGD)  The discharge consists of: 1. Circulating Water Blowdown 2. Steam/Condensate Blowdown Recycle 3. Cooling Tower Evaporative Coolers						
Flow (MGD)	See Special Condition 1.				1/Month	Measure
pH	See Special Condition 2.				1/Month	Grab
Chromium (Total)			0.2	0.2	1/Month	Composite
Zinc			1	1	1/Year***	Grab
126 Priority Pollutants			No Detectable Amounts		1/Year***	*
* - See Special Condition 8. ** - See Special Condition 9. *** - See Special Condition 10.						

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Effluent Limitations and Monitoring

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	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
<u>Outfall B01 – Low Volume Waste</u> (Average Flow = 0.0105 MGD)  The discharge consists of: 1. Oil/Water Separator 2. Multi-Media Filter Backwash 3. Reverse Osmosis Reject 4. Reverse Osmosis Product Dump 5. Neutralization Tank						
Flow (MGD)	See Special Condition 1.				1/Month	Measure
pH	See Special Condition 2.				1/Month	Grab
Total Suspended Solids			15	30	1/Month	Composite
Oil & Grease*			15	20	1/Month	Composite
* - See Special Condition 12.						

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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 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	45	45	57	68	78	85	86	86	85	75	65	52
° C	7	7	14	20	26	29	30	30	29	24	18	11

- 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. 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 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. 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 7. 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.



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Special Conditions

SPECIAL CONDITION 8. Compliance with the limitations for the 126 priority pollutants may be determined by analyzing the effluent or by engineering calculations which demonstrate that the regulated pollutants are not detectable in the final discharge. Detection levels are identified in the analytical methods found in 40 CFR 136. A separate sheet from the DMR shall be provided showing the calculations demonstrating the non-detectable value and the detection level utilized. The 126 priority pollutants can be found in Appendix A of 40 CFR 423 and exclude Chromium (Total) and Zinc.

SPECIAL CONDITION 9. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge and prior to mixing with discharges from outfall B01.

SPECIAL CONDITION 10. Yearly testing of zinc and compliance determination for the 126 priority pollutants shall be performed in April, results shall be submitted with the DMR in May.

SPECIAL CONDITION 11. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 12. The composites for oil, fats, and greases shall consist of sample aliquots of approximately equal volume, a minimum of 100 milliliters, be collected at regular time intervals over an eight-hour period (three aliquots total). A single sample formed by combining all the aliquots, and the solvent rinse of the container, would then be analyzed. The results of the single analysis are then reported for oil, fats, and grease.

SPECIAL CONDITION 13. In the event the permittee shall require the use of water treatment additives other than those previously approved by the Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has previously been approved by the Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions - Attachment H.

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Special Conditions