

NPDES Permit No. IL0060755
Notice No. SMT:24032101.smt

Public Notice Beginning Date: May 29, 2024

Public Notice Ending Date: June 28, 2024

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:

Archer Daniels Midland Company
4666 Faries Parkway
Decatur, Illinois 62521

Name and Address of Facility:

North Water Treatment Plant
5655 Rea's Bridge Road
Decatur, Illinois 62521
(Macon 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 Shu-Mei Tsai at 217/782-0610.

The applicant is engaged in the operation of a water treatment plant to supply approximately 15 MGD non-potable process water to the Archer Daniels Midland production facilities (SIC 4941). The water source obtains from Lake Decatur and wells. Wastewater is from backwashing a sand filter and clarifier sludge blowdown to the sludge lagoons. Plant operation results in an average discharge of 0.3 MGD of sludge lagoon decant from outfalls 001, 002, 003, 004, and 005.

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

Outfall	Receiving Stream	Latitude		Longitude		Stream Classification	Biological Stream Characterization
001	Lake Decatur	39 ° 52' 45"	North	88 ° 52' 00"	West	General Use	D
002	Lake Decatur	39 ° 52' 45"	North	88 ° 52' 00"	West	General Use	D
003	Lake Decatur	39 ° 52' 45"	North	88 ° 52' 00"	West	General Use	D
004	Lake Decatur	42 ° 53' 00"	North	88 ° 52' 00"	West	General Use	D
005	Lake Decatur	42 ° 53' 00"	North	88 ° 52' 00"	West	General Use	D

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

The subject facility discharges to Lake Decatur (IL_REA) at a point where 0 cfs of flow exists upstream of the outfall during critical 7Q10 low-flow conditions. The Lake Decatur is not listed as a biologically significant stream in the 2008 Illinois Department of Natural Resources Publication *Integrating Multiple Taxa in a Biological Stream Rating System*, nor is it given an integrity rating in that document. The Lake Decatur, (IL_REA), is listed on the 2020/2022 Illinois Integrated Water Quality Report and Section 303(d) List.

The impaired designated uses and pollutants causing impairment are tabulated below:

<u>Designated Uses</u>	<u>Pollutants Causing Impairment</u>
Public and Food Processing water Supply	Nitrogen, and Nitrate
Fish Consumption	Mercury, Chlordane, and Polychlorinated biphenyls (PCB's)

Lake Decatur is not subject to enhanced dissolved oxygen standards.

The facility does not have a WLA as part of any completed or ongoing TMDL.

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

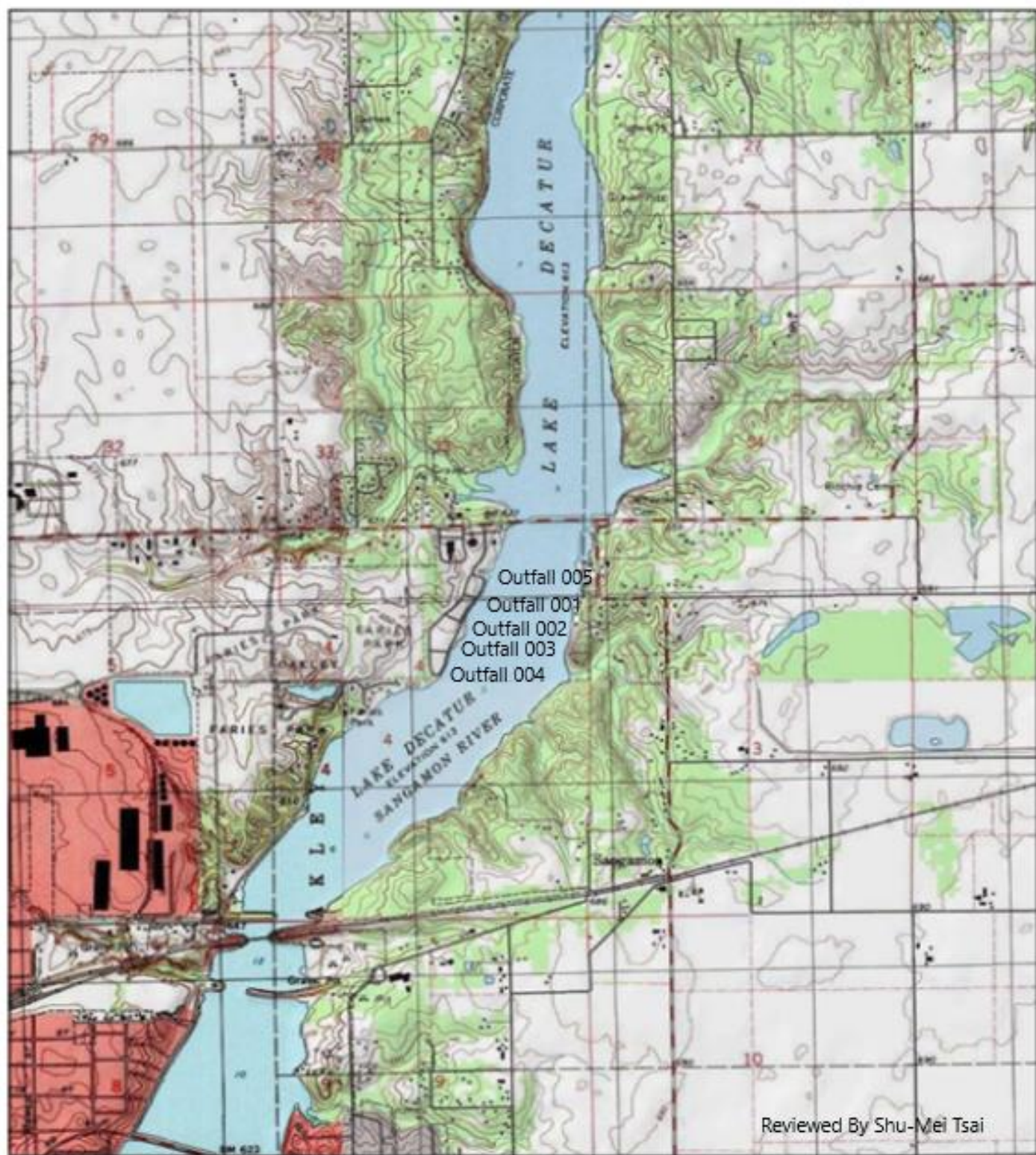
Outfalls: 001 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 002 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 003 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 004 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 005 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)

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				6.5	9	35 IAC 302.204
Total Suspended Solids				15.0	30.0	35 IAC 304.124
Total Residual Chlorine					0.05	40 CFR 125.3

The following explain the conditions of the proposed permit:

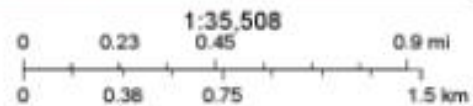
Special conditions include the descriptions of flow measurement and reporting, pH, monitoring location, DMR's, re-opener, operator requirements, total residual chlorine, and the requirement of renewal applications.

IL0060755 Archer Daniels Midland Company



4/3/2024

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NPDES Permit No. IL0060755

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:

Archer Daniels Midland Company
4666 Faries Parkway
Decatur, Illinois 62521

Facility Name and Address:

North Water Treatment Plant
5655 Rea's Bridge Road
Decatur, Illinois 62521
(Macon County)

Discharge Number and Name:

001	Filter Backwash and Clarifier Sludge Blowdown
002	Filter Backwash and Clarifier Sludge Blowdown
003	Filter Backwash and Clarifier Sludge Blowdown
004	Filter Backwash and Clarifier Sludge Blowdown
005	Filter Backwash and Clarifier Sludge Blowdown

Receiving Waters:

Lake Decatur
Lake Decatur
Lake Decatur
Lake Decatur
Lake Decatur

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.

Darin E. LeCrone, P.E.
Manager, Permit Section
Division of Water Pollution Control

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Effluent Limitations and Monitoring

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:

Outfalls: 001 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 002 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 003 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 004 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)
 005 Filter Backwash and Clarifier Sludge Blowdown (DAF = 0.3 MGD)

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCENTRATION <u>LIMITS mg/L</u>		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	See Special Condition 1				1/Month	Continues
pH	See Special Condition 2				1/Month	Grab
Total Suspended Solids			15.0	30.0	1/Month	Grab
Total Residual Chlorine	See Special Condition 6			0.05	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 value on the monthly Discharge Monitoring Report. The monthly average shall consist of the summation of the daily flows divided by the number of days the facility discharged during that month.

SPECIAL CONDITION 2. The pH shall be in the range 6.5 to 9. 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) electronic 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 is required to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <https://epa.illinois.gov/topics/water-quality/surface-water/netdmr.html>

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees that have been granted a waiver 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
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

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. All samples for total residual chlorine (TRC) 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 7. To receive the renewal authorization to discharge under this permit, the applicant must complete and submit Application Forms 1, a Form 2C for all existing discharge, a Form 2D for any new discharge, and a Form 2F for stormwater discharge. Pursuant to 40 CFR 122.21(c)(1), permittees must submit a renewal application at least 180 days prior to expiration of the current permit.