

NPDES Permit No. IL0002283
Notice No. MEL:20020601.docx

Public Notice Beginning Date: **July 7, 2020**

Public Notice Ending Date: **August 6, 2020**

**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:

Chicago Department of Aviation
10510 West Zemke Road
Chicago, Illinois 60666

Name and Address of Facility:

Chicago O'Hare International Airport
10510 West Zemke Road
Chicago, Illinois 60666
(Cook & DuPage Counties)

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 commenter 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 Mark E. Liska at 217/782-0610.

The applicant is engaged in the operation of a large international airport with a comprehensive range of facilities and services for airlines as well as for users (SIC 4581). Waste water is generated from the discharge of stormwater which may contain deicing chemicals during and subsequent to the deicing season. Plant operation results in an intermittent discharge of stormwater overflow from the South Detention Basin (SDB) and associated groundwater seepage from outfall 001, an intermittent discharge of stormwater from the SDB up to 16 MGD from outfall 002, and an intermittent discharge of stormwater from outfalls 097, 101, 114, 121, and 205.

Application is made for the new and existing discharge(s) which are located in Cook & DuPage Counties, 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	Crystal Creek	41° 29' 14" North	87° 53' 25" West	General Use	D
002	Des Plaines River	41° 57' 6" North	87° 51' 19" West	General Use	D
097	Willow-Higgins Creek	41° 59' 54" North	87° 54' 14" West	General Use	D
101	Willow-Higgins Creek	41° 59' 55" North	87° 53' 18" West	General Use	D
114	Willow-Higgins Creek	41° 59' 42" North	87° 52' 48" West	General Use	D
121	Willow-Higgins Creek	41° 59' 14" North	87° 52' 45" West	General Use	D
141	Crystal Creek	41° 57' 36" North	87° 53' 7" West	General Use	D
205	Des Plaines River	41° 58' 27" North	87° 52' 43" West	General Use	D

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

The stream segment G-15 receiving the discharge from outfall(s) 002 is on the 2016 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>
Chloride, Dissolved Oxygen, Phosphorus (Total), Sedimentation/Siltation	Aquatic Life
Mercury, PCBs	Fish Consumption
Fecal Coliform	Primary Contact

The stream segment GO-01 receiving the discharge from outfall(s) 097, 101, 114, and 121 is on the 2016 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*.

<u>Potential Cause</u>	<u>Designated Use</u>
Phosphorus (Total), Chloride	Aquatic Life
Fecal Coliform	Primary Contact

The stream segment GN-01 receiving the discharge from outfall(s) 001 and 141 is not on the 2016 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 G-28 receiving the discharge from outfall(s) 205 is on the 2016 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*.

<u>Potential Cause</u>	<u>Designated Use</u>
Chloride, Phosphorus (Total)	Aquatic Life
Mercury, PCBs	Fish Consumption
Fecal Coliform	Primary Contact

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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
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	WEEKLY AVERAGE	DAILY MAXIMUM	
Outfall: 001							
Flow							35 IAC 309.146
pH						6.0-9.0	35 IAC 304.125
BOD ₅				10		20	35 IAC 304.120(c)
Tot. Suspended Solids				15		30	35 IAC 304.124
Ammonia Nitrogen (as N)							
Spring/Fall				2.4	6.1	11.7	35 IAC 355
Summer				1.8	4.6	14.7	40 CFR 449.10
Winter				4.0		8.6	

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L			REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	WEEKLY AVERAGE	DAILY MAXIMUM	
Outfall: 002							
Flow							35 IAC 309.146
pH						6.0-9.0	35 IAC 304.125
BOD ₅				20		40	35 IAC 304.120(b)
Ammonia Nitrogen (as N)							
Spring/Fall				2.4	6.1	11.7	35 IAC 355
Summer				1.8	4.6	14.7	40 CFR 449.10
Winter				4.0		8.6	

PARAMETER	CONCENTRATION MINIMUM mg/L			REGULATION
	30 DAY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	
Dissolved Oxygen				35 IAC 302.206
March-July	N/A	6	5.6	
August-February	5.5	4	3.5	

PARAMETER	LOAD LIMITS lbs/day		REGULATION	CONCENTRATION LIMITS mg/L			REGULATION
	DAF (DMF)			30 DAY AVERAGE	WEEKLY AVERAGE	DAILY MAXIMUM	
	30 DAY AVERAGE	DAILY MAXIMUM					
Outfall: 097							
Flow							35 IAC 309.146
pH						6.0-9.0	35 IAC 304.125
BOD ₅				20		40	35 IAC 304.120(b)
Ammonia Nitrogen (as N)							
Spring/Fall				2.4	6.1	11.7	35 IAC 355
Summer				1.8	4.6	14.7	40 CFR 449.10
Winter				4.0		8.6	

The following explain the conditions of the proposed permit:

Special Conditions will require monthly DMR submission, require a Class K Operator, explain the Stormwater Pollution Prevention Plan, require that deicing use records be maintained, explain extra sampling requirements at other stormwater outfalls, and define the sampling locations.

The discharge of stormwater from the South Detention Basin (SDB) to the Des Plaines River via force main to outfall 002 has an intermittent discharge that is up to 16 MGD which is the maximum flow of the pumps. This discharge is only allowed during times that deicing chemicals are not in use at the airport. The SDB has a separate groundwater seepage collection system which normally discharges to outfall 001 and has an alternate discharge to outfall 002.

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