

NPDES Permit No. IL0023329

Notice No. JAR:20021301

Public Notice Beginning Date: **March 25, 2020**

Public Notice Ending Date: **April 24, 2020**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

PUBLIC NOTICE/FACT SHEET
of
Draft Modified NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois EPA
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:

Village of Algonquin
2200 Harnish Drive
Algonquin, Illinois 60102

Name and Address of Facility:

Village of Algonquin - WWTP
125 Wilbrant Drive
Algonquin, Illinois 60102
(McHenry County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES Permit to discharge into the waters of the U.S. 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. All comments on the draft Permit and requests for hearing must be received by the IEPA by U.S. Mail, carrier mail or hand delivered by the Public Notice Ending Date. Interested persons are invited to submit written comments on the draft Permit to the IEPA at the above address. Commenters 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. Commenters 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 numbers 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 Jaime Rabins at 217/782-0610.

The following water quality and effluent standards and limitations were applied to the discharge:

Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Pollution Control Board and the Clean Water Act were applied in determining the applicable standards, limitations and conditions contained in the draft Permit.

The applicant is engaged in treating domestic wastewater for the Village of Algonquin.

The Permittee currently is participating in the Fox River Study Group (FRSG) to determine cost effective means to remove dissolved oxygen and offensive condition impairments in the Fox River to the extent feasible. Along with coordination with other watershed members of the FRSG, the Permittee shall participate in the FRSG for the completion of tasks set out in the 2015 Fox River Implementation Plan (either by the permittee or through the FRSG).

The length of the Permit is approximately 5 years.

The main discharge number is 001. The seven day once in ten year low flow (7Q10) of the receiving stream, Fox River is 124 cfs.

The design average flow (DAF) for the facility is 5.0 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 11.3 MGD. Treatment consists of screening, primary settling tanks, activated sludge, final settling tanks, ultraviolet disinfection, phosphorus removal, and sludge handling facilities.

This modified Permit does not increase the facility's DAF, DMF, concentration limits, and/or load limits.

The IEPA will accept comments on the following draft modifications to the Permit:

The submittal date for the Phosphorus Discharge Optimization Plan will be extended to January 1, 2021.

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

<u>Discharge Number</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Fox River	42° 09' 17" North	88° 17' 39" West	General Use	C

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



The stream segment(s) from the Fox River, Waterbody Segment, DT-20, receiving the discharge from outfall(s) 001 is on the 303(d) list of impaired waters.

The following parameters have been identified as the pollutants causing impairment:

Potential Causes

Uses Impaired

Alteration in stream-side or littoral vegetative cover (non-pollutant), other flow regime alterations (non-pollutant), dissolved oxygen (non-pollutant)

Aquatic life

Polychlorinated biphenyls

Fish consumption

PUBLIC NOTICE

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The discharge(s) from the facility is (are) proposed to be monitored and limited at all times as follows:

Discharge Number(s) and Name(s): 001 STP Outfall

Load limits computed based on a design average flow (DAF) of 5.0 MGD (design maximum flow (DMF) of 11.3 MGD).

The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Regulation
	Annual Average	Monthly Average	Weekly Average	Annual Average	Monthly Average	Weekly Maximum	
CBOD ₅ **	417(942)	834(1885)	1668(3770)	10	20	40	35 IAC 304.120 40 CFR 133.102
Suspended Solids**	500(1131)	1043(2356)	1877(4241)	12	25	45	35 IAC 304.120 40 CFR 133.102
pH	Shall be in the range of 6 to 9 Standard Units						35 IAC 304.125
Fecal Coliform***	The monthly geometric mean shall not exceed 200 per 100 mL						35 IAC 302.209

Parameter	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Regulation
Chlorine Residual				0.05	35 IAC 302.208
Ammonia Nitrogen: (as N)					
Apr-May/Sept-Oct	63(141)	67(151)	1.5	1.6	35 IAC 355 and 35 IAC 302
June-August	50(113)	67(151)	1.2	1.6	
Nov.-Feb.		146(330)		3.5	
March	63(141)	75(170)	1.5	1.8	
Total Phosphorous (as P)	42(94)		1.0		35 IAC 304.123
Total Nitrogen	Monitor Only				35 IAC 309.146
Dissolved Phosphorus	Monitor Only				35 IAC 309.146
Nitrate /Nitrite	Monitor Only				35 IAC 309.146
Total Kjeldahl Nitrogen (TKN)	Monitor Only				35 IAC 309.146
Alkalinity	Monitor Only				35 IAC 309.146
Temperature	Monitor Only				35 IAC 309.146

	Monthly Avg. not less than	Weekly Avg. not less than	Daily Minimum	Regulation
Dissolved Oxygen				
March-July	N/A	6.0	5.0	35 IAC 302.206
August-February	5.5	4.0	3.5	

*Load Limits are calculated by using the formula: 8.34 x (Design Average and/or Maximum Flow in MGD) x (Applicable Concentration in mg/L).

** BOD₅ and Suspended Solids (85% removal required): In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent.

***No more than 10% of the samples during the month shall exceed 400 per 100 ml.

This draft Permit also contains the following requirements as special conditions:

1. Reopening of this Permit to include different final effluent limitations.
2. Operation of the facility by or under the supervision of a certified operator.
3. Submission of the operational data in a specified form and at a required frequency at any time during the effective term of this Permit.
4. More frequent monitoring requirement without Public Notice.
5. Prohibition against causing or contributing to violations of water quality standards.
6. Recording the monitoring results on Discharge Monitoring Report Forms using one such form for each outfall each month and submitting the forms to IEPA each month.
7. The provisions of 40 CFR Section 122.41(m) & (n) are incorporated herein by reference.
8. Effluent sampling point location.
9. A requirement to monitor and a limit of 0.05 mg/L for residual chlorine when it is used.
10. Monitoring for arsenic, barium, cadmium, hexavalent chromium, total chromium, copper, available cyanide, total cyanide, fluoride, dissolved iron, total iron, lead, manganese, mercury, nickel, oil, phenols, selenium, silver and zinc is required to be conducted semi-annually beginning 3 months from the effective date.
11. Submission of annual fiscal data.
12. The Permittee is required to perform biomonitoring tests in the 18th, 15th, 12th and 9th months prior to the expiration date of the Permit, and to submit the results of such tests to the IEPA within one week of receiving the results from the laboratory.
13. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
14. Reopening of this Permit to include revised effluent limitations based on a Total Maximum Daily Load (TMDL) or an approved Fox River Water Quality Study.
15. Submission of Phosphorus Removal Feasibility Study (PRFS).
16. Total Nitrogen Monitoring.
17. Optimization of existing treatment facilities.
18. Monitoring for total phosphorus, dissolved phosphorus, nitrate/nitrite, total Kjeldahl nitrogen (TKN), ammonia, total nitrogen (calculated), alkalinity and temperature once a month.
19. A requirement for participation in the Fox River Study Group.
20. Capacity, Management, Operations, and Maintenance (CMOM) plan.
21. Requirement to meet 0.5 mg/L phosphorus limit by January 1, 2030.