

NPDES Permit No. IL0030970

Notice No. 22102001.KKD

Public Notice Beginning Date: **December 07, 2022**

Public Notice Ending Date: **January 06, 2023**

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:

City of Sandwich
144 East Railroad Street
Sandwich, Illinois 60548

Name and Address of Facility:

City of Sandwich STP
1120 East Church Street
Sandwich, Illinois 60548
(DeKalb 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. 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. 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 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 Kaushal Desai 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 and industrial wastewater for the City of Sandwich.

The length of the Permit is approximately 5 years.

The main discharge number is 003. The seven day once in ten year low flow (7Q10) of the receiving stream, Harvey Creek tributary to the Little Rock Creek is 0 cfs.

The design average flow (DAF) for the facility is 1.5 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 3.75 MGD. Treatment consists of screening, oxidation ditches, final clarification, disinfection, excess flow treatment, aerobic digestion, and gravity thickening.

Sandwich is a member of the Fox River Study Group.

The Agency will accept comments on the following modification:

1. The compliance schedule for phosphorus in Special Condition 21 has been changed to allow the facility more time to meet the 1.0 mg/L limit. The original compliance date was March 1, 2023. The new date is December 1, 2024.

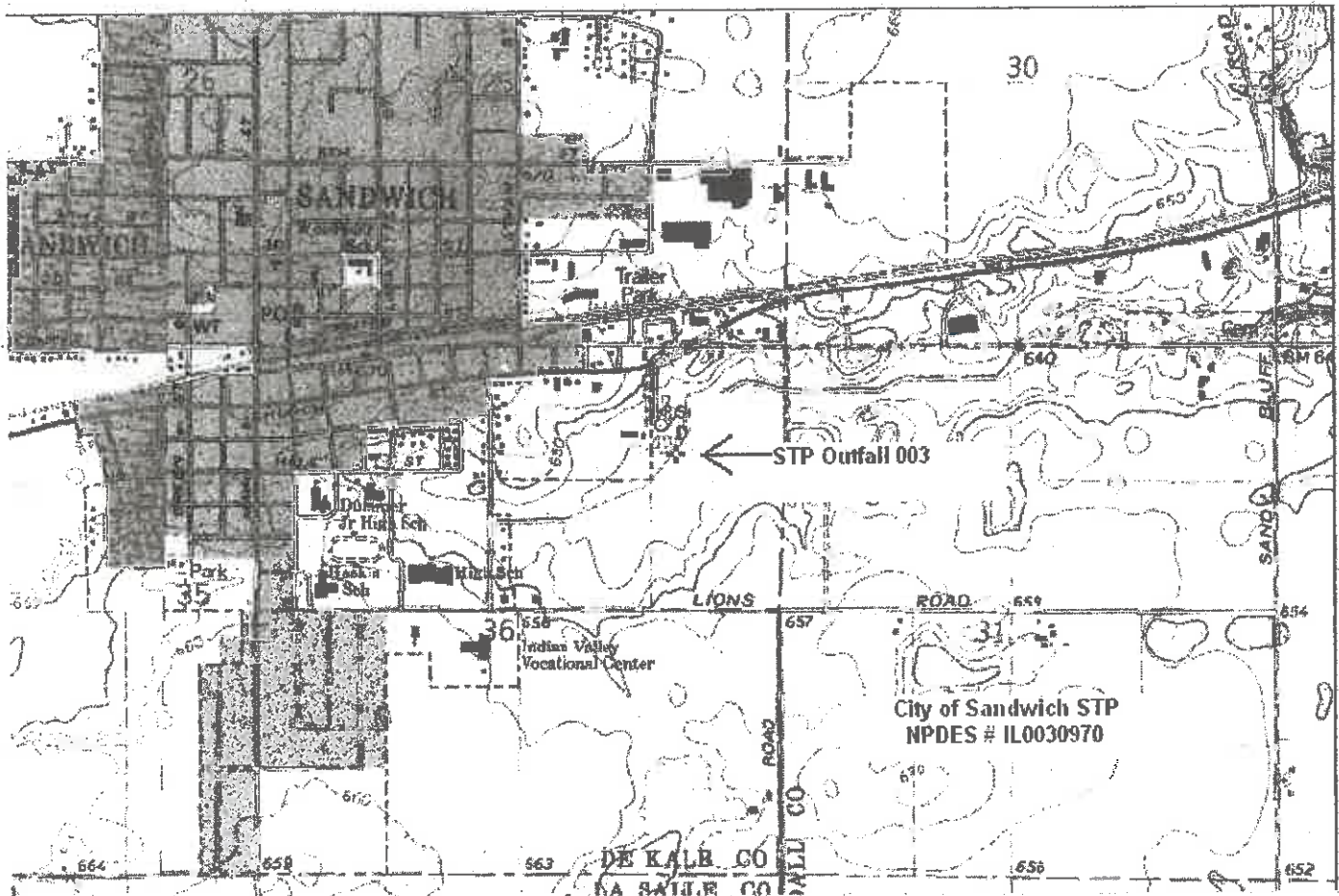
This modified Permit does not increase the facility's DAF, DMF, concentration limits, and/or load limits.

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).

Application is made for the existing discharge(s) which are located in DeKalb 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>
003	Harvey Creek tributary to the Little Rock Creek	41° 38' 35" North	88° 36' 23" West	General Use	Not Rated
002	Harvey Creek tributary to the Little Rock Creek	41° 38' 37" North	88° 36' 25" West	General Use	Not Rated

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



The stream segment(s), tributary to Waterbody Segment DTCA-01 (Little Rock Creek) and Waterbody Segment DTCA-01, receiving the discharge from outfall(s) 003 are not on the 303(d) list of impaired waters. The next stream segment receiving the discharge Waterbody Segment DTC-06 (Big Rock Creek) is also not on the 303(d) list of impaired waters.

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The next stream segment(s), waterbody segment DT-11 (Fox River), receiving the discharge from outfall(s) 003 is on the 303(d) list of impaired waters.

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Public Noticed

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

Potential Causes

Aldrin, aquatic algae (non-pollutant), other flow regime alterations (non-pollutant), phosphorus, sedimentation/siltation, and total suspended solids
Polychlorinated biphenyls

Fecal coliform

aquatic algae (non-pollutant), phosphorus

Uses Impaired

Aquatic Life

Fish consumption

Primary contact

Aesthetic quality

The next stream segment(s), waterbody segment DT-41, receiving the discharge from outfall(s) 003 is also on the 303(d) list of impaired waters.

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

Potential Causes

Polychlorinated biphenyls
aquatic algae (non-pollutant), phosphorus

Uses Impaired

Fish consumption

Aesthetic quality

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): 003 STP Outfall

Load limits computed based on a design average flow (DAF) of 1.5 MGD (design maximum flow (DMF) of 3.75 MGD).

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

Parameter	LOAD LIMITS lbs/day			CONCENTRATION LIMITS mg/L			Regulation	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
CBOD ₅ **	125 (313)		250 (626)	10		20	35 IAC 304.120 40 CFR 133.102	
Suspended Solids**	150 (375)		300 (751)	12		24	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	Daily Maximum shall not exceed 400 per 100 mL (May through October)						35 IAC 304.121	
Chlorine Residual							0.05	35 IAC 302.208
Ammonia Nitrogen:								
April-May/Sept.-Oct.	11 (28)		38 (94)	0.9		3.0	35 IAC 302.208	
June-August	11 (28)	35 (88)	38 (94)	0.9	2.8	3.0	35 IAC 355 and 35 IAC 302	
Nov.-Feb.	18 (44)		41 (103)	1.4		3.3		
March	18 (44)		43 (106)	1.4		3.4		
	<u>Annual Average</u>			<u>Annual Average</u>				
Total Phosphorus (as P)	13 (31)			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		
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.

Annual Average is defined as the 12 month rolling average (calculated monthly).

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This Permit contains an authorization to treat and discharge excess flow as follows:

Discharge Number(s) and Name(s): 002 STP Excess Flow Outfall

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

<u>Parameter</u>	<u>CONCENTRATION LIMITS (mg/L)</u>		<u>Regulation</u>
	<u>Monthly Average</u>	<u>Weekly Average</u>	
BOD ₅ *	30	45	40 CFR 133.102
Suspended Solids*	30	45	40 CFR 133.102
Fecal Coliform	Daily Maximum shall not exceed 400 per 100 mL		35 IAC 304.121
pH	Shall be in the range of 6 to 9 standard units		35 IAC 304.125
Chlorine Residual	0.75		35 IAC 302.208
Ammonia Nitrogen (as N)	Monitor only		35 IAC 355 and 35 IAC 302
Total Phosphorus (as P)	Monitor only		35 IAC 309.146
Dissolved Oxygen	Monitor only		35 IAC 302.206

*The 30-day average percent removal shall not be less than 85 percent.

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. Controlling the sources of infiltration and inflow into the sewer system.
10. Seasonal fecal coliform limits.
11. 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.
12. Submission of annual fiscal data.
13. A requirement for biomonitoring of the effluent.
14. Capacity, Management, Operations, and Maintenance (CMOM) plan.
15. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
16. Reopening of this Permit to include revised effluent limitations based on a Total Maximum Daily Load (TMDL) or other water quality study.
17. Submission of Phosphorus removal feasibility study.
18. Optimization of existing treatment facilities.
19. A requirement for participation in the Fox River Study Group.
20. Monitoring for total phosphorus, dissolved phosphorus, nitrate/nitrite, total kjeldahl nitrogen (TKN), ammonia, total nitrogen (calculated), alkalinity and temperature once a month.
21. Compliance Schedule for meeting 1.0 mg/L phosphorus limit.
22. Optimization of biological nutrient removal (BNR) facilities.
23. Reasonable potential analysis and mixing study plan.
24. Requirement to meet 0.5 mg/l phosphorus limit by January 1, 2030.