

NPDES Permit No. IL0071617

Notice No. SKT:15060901.daa

Public Notice Beginning Date: **July 2, 2015**

Public Notice Ending Date: **August 3, 2015**

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

PUBLIC NOTICE/FACT SHEET  
of  
Draft Reissued 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 Tuscola  
214 North Main Street  
Tuscola, Illinois 61953

Name and Address of Facility:

Tuscola STP  
Tuscola Illinois 61953  
(Douglas 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 Surinder Tandon 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 City of Tuscola.

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, Unnamed tributary to Hayes Branch Creek is 0 cfs.

The design average flow (DAF) for the facility is 0.50 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 1.95 MGD. Treatment consists of three acre aerated lagoon followed by 23 acre polishing lagoon followed by a 150 acre spray irrigation and subsurface collection system. Discharge to surface water is from the water collected in the sub surface collection system.

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

Pursuant to the waiver provisions authorized by 40 CFR § 123.24, this draft permit is within the class, type, and size for which the Regional Administrator, Region V, has waived his right to review, object, or comment on this draft permit action.

Application is made for the existing discharge(s) which is located in Douglas 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                     | Unnamed tributary to Hayes Branch Creek | 39° 48' 28" North | 88° 15' 42" West | General Use                  | Not Rated               |

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

The unnamed tributary of Hayes Branch Creek (no segment code) is not listed as impaired in the draft 2014 Illinois Integrated Water Quality Report and Section 303(d) List.

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 0.50 MGD (design maximum flow (DMF) of 1.95 MGD).

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

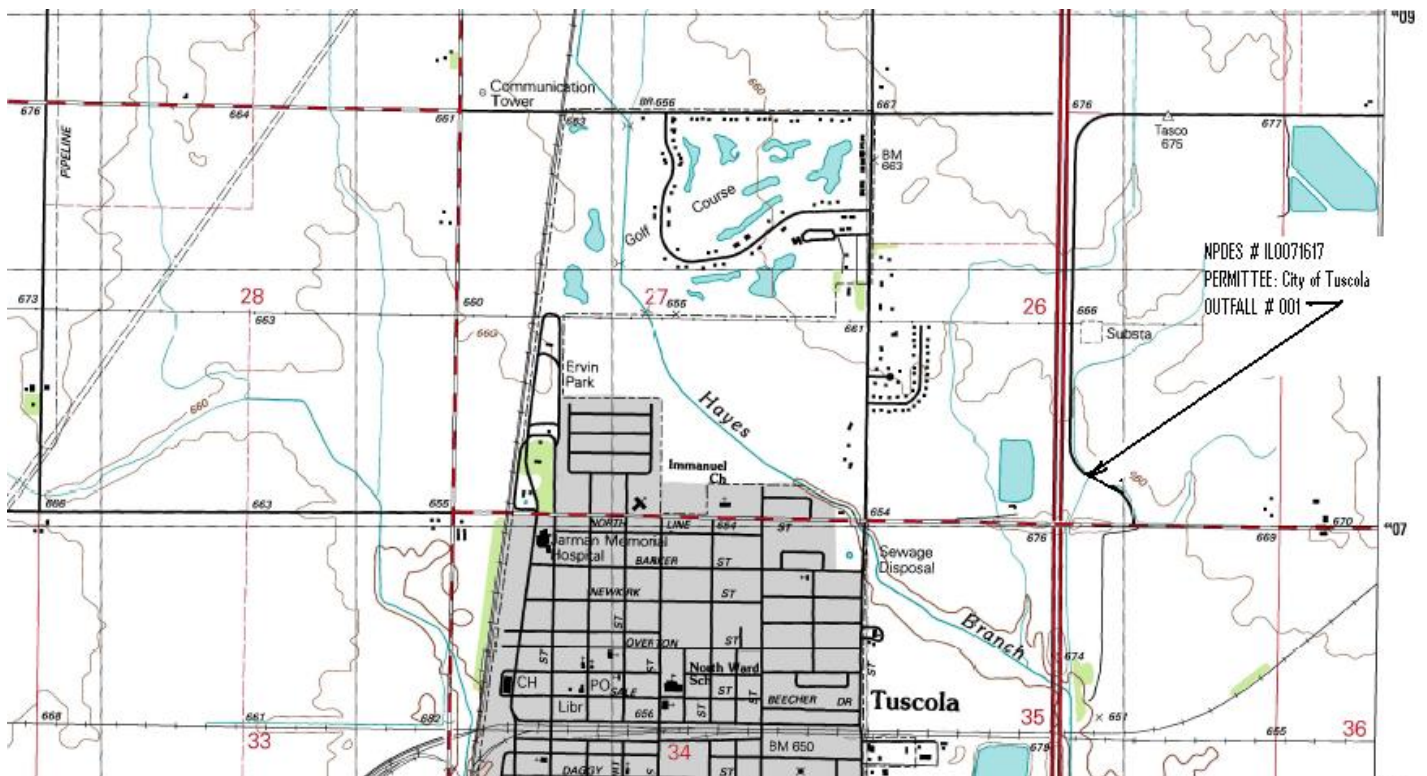
| Parameter                      | LOAD LIMITS lbs/day<br>DAF (DMF)*              |                   |                  | CONCENTRATION<br>LIMITS mg/L     |                                 |                  | Regulation                       |
|--------------------------------|--|-------------------|------------------|----------------------------------|---------------------------------|------------------|----------------------------------|
|                                | Monthly<br>Average                             | Weekly<br>Average | Daily<br>Maximum | Monthly<br>Average               | Weekly<br>Average               | Daily<br>Maximum |                                  |
| CBOD <sub>5</sub> **           | 42(163)  |                   | 83(325)          | 10                               |                                 | 20               | 35 IAC 304.120<br>40 CFR 133.102 |
| Suspended Solids**             | 50(195)  |                   | 100(390)         | 12                               |                                 | 24               | 35 IAC 304.120<br>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  |                   |                  |                                  |                                 |                  | 35 IAC 304.121                   |
| Chlorine Residual              |  |                   |                  |                                  |                                 | 0.05             | 35 IAC 302.208                   |
| Ammonia Nitrogen:<br>March     | 6.7(26)  | 17(65)            | 29(112)          | 1.6                              | 4.0                             | 6.9              | 35 IAC 355 and<br>35 IAC 302     |
| April-October                  | 6.3(24)  |                   | 13(49)           | 1.5                              |                                 | 3.0              |                                  |
| Nov.-Feb.                      | 17(65)   |                   | 20(76)           | 4.0                              |                                 | 4.7              |                                  |
|                                |  |                   |                  | Monthly<br>Avg. not<br>less than | Weekly<br>Avg. not<br>less than | Daily<br>Minimum |                                  |
| Dissolved Oxygen<br>March-July |  |                   |                  | --                               | 6.0                             | 5.0              | 35 IAC 302.206                   |
| August-February                |  |                   |                  | 5.5                              | 4.0                             | 3.5              |                                  |

\*Load Limits are calculated by using the formula:  $8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L})$

\*\*BOD<sub>5</sub> 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 except as provided in Sections 133.103 and 133.105.

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 in the event of operational, maintenance or other problems resulting in possible effluent deterioration.
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. At minimum of 85% removal of CBOD<sub>5</sub> and suspended solids.
10. Controlling the sources of infiltration and inflow into the sewer system.
11. Burden reduction.
12. Submission of annual fiscal data.
13. Special monitoring requirements due to the spray irrigation system.
14. Operational considerations for surface application of wastewater.
15. Application rates for surface application.



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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:

City of Tuscola  
214 North Main Street  
Tuscola, Illinois 61953

Facility Name and Address:

Tuscola STP  
Tuscola Illinois 61953  
(Douglas County)

Receiving Waters: Unnamed tributary to Hayes Branch Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of the Ill. Adm. Code, Subtitle C, Chapter I, 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 Effluent Limitations, Monitoring, and Reporting requirements; Special Conditions and Attachment H Standard Conditions attached 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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## NPDES Permit No. IL0071617

Effluent Limitations, Monitoring, and Reporting

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

Load limits computed based on a design average flow (DAF) of 0.50 MGD (design maximum flow (DMF) of 1.95 MGD).

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

| Parameter                      | LOAD LIMITS lbs/day<br>DAF (DMF)*              |                   |                  | CONCENTRATION<br>LIMITS mg/L           |                                       |                  | Sample<br>Frequency | Sample<br>Type |
|--------------------------------|--|-------------------|------------------|--|---------------------------------------|------------------|---------------------|----------------|
|                                | Monthly<br>Average                             | Weekly<br>Average | Daily<br>Maximum | Monthly<br>Average                     | Weekly<br>Average                     | Daily<br>Maximum |                     |                |
| Flow (MGD)                     |  |                   |                  |  |                                       |                  | Continuous          |                |
| CBOD <sub>5</sub> *****        | 42(163)  |                   | 83(325)          | 10                                     |                                       | 20               | 1 Day/Week          | Composite      |
| Suspended Solids***            | 50(195)  |                   | 100(390)         | 12                                     |                                       | 24               | 1 Day/Week          | Composite      |
| pH                             | Shall be in the range of 6 to 9 Standard Units |                   |                  |  |                                       |                  | 1 Day/Week          | Grab           |
| Fecal Coliform                 | Daily Maximum shall not exceed 400 per 100 mL  |                   |                  |  |                                       |                  | 1 Day/Week          | Grab           |
| Chlorine Residual              |  |                   |                  |  |                                       | 0.05             | 1 Day/Week          | Grab           |
| Ammonia Nitrogen:<br>As (N)    |  |                   |                  |  |                                       |                  |                     |                |
| March                          | 6.7(26)  | 17(65)            | 29(112)          | 1.6                                    | 4.0                                   | 6.9              | 1 Day/Week          | Composite      |
| April-October                  | 6.3(24)  |                   | 13(49)           | 1.5                                    |                                       | 3.0              | 1 Day/Week          | Composite      |
| Nov.-Feb.                      | 17(65)   |                   | 20(76)           | 4.0                                    |                                       | 4.7              | 1 Day/Week          | Composite      |
|                                |  |                   |                  | Monthly<br>Average<br>not less<br>than | Weekly<br>Average<br>not less<br>than | Daily<br>Minimum |                     |                |
| Dissolved Oxygen<br>March-July |  |                   |                  | --                                     | 6.0                                   | 5.0              | 2 Days/Week         | Grab           |
| August-February                |  |                   |                  | 5.5                                    | 4.0                                   | 3.5              | 2 Days/Week         | Grab           |

\*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

\*\*Carbonaceous BOD<sub>5</sub> (CBOD<sub>5</sub>) testing shall be in accordance with 40 CFR 136.\*\*\*BOD<sub>5</sub> and Suspended Solids (85% removal required) For Discharge No. 001: In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent except as provided in Sections 133.103 and 133.105. The percent removal need not be reported to the IEPA on DMRs but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBOD<sub>5</sub> concentration to determine the effluent BOD<sub>5</sub> concentration.

Percent removal is a percentage expression of the removal efficiency across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of the raw wastewater influent concentrations to the facility and the 30-day average values of the effluent pollutant concentrations for a given time period.

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

Fecal Coliform shall be reported on the DMR as a daily maximum value.

pH shall be reported on the DMR as minimum and maximum value.

Chlorine Residual shall be reported on DMR as daily maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.

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Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

| <u>Parameter</u> | <u>Sample Frequency</u> | <u>Sample Type</u> |
|------------------|-------------------------|--------------------|
| Flow (MGD)       | Continuous              |                    |
| BOD <sub>5</sub> | 1 Day/Week              | Composite          |
| Suspended Solids | 1 Day/Week              | Composite          |

Influent samples shall be taken at a point representative of the influent.

Flow (MGD) shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

BOD<sub>5</sub> and Suspended Solids shall be reported on the DMR as a monthly average concentration.

Special Conditions

SPECIAL CONDITION 1. This Permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws and regulations. The IEPA will public notice the permit modification.

SPECIAL CONDITION 2. The use or operation of this facility shall be by or under the supervision of a Certified Class 4 operator.

SPECIAL CONDITION 3. The IEPA may request in writing submittal of operational information in a specified form and at a required frequency at any time during the effective period of this Permit.

SPECIAL CONDITION 4. The IEPA may request more frequent monitoring by permit modification pursuant to 40 CFR § 122.63 and Without Public Notice.

SPECIAL CONDITION 5. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

SPECIAL CONDITION 6. 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 (NetDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/net-dmr/index.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 not using NetDMRs 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 7. The provisions of 40 CFR Section 122.41(m) & (n) are incorporated herein by reference.

SPECIAL CONDITION 8. 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 9. BOD<sub>5</sub> and Suspended Solids (85% removal required) For Discharge No. 001 and 002: In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent except as provided in Sections 133.103 and 133.105. The percent removal need not be reported to the IEPA on DMRs but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBOD<sub>5</sub> concentration to determine the effluent BOD<sub>5</sub> concentration.

Percent removal is a percentage expression of the removal efficiency across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of the raw wastewater influent concentrations to the facility and the 30-day average values of the effluent pollutant concentrations for a given time period.

SPECIAL CONDITION 10. Consistent with permit modification procedures in 40 CFR 122.62 and 63, this Permit may be modified to include requirements for the Permittee on a continuing basis to evaluate and detail its efforts to effectively control sources of infiltration and inflow into the sewer system and to submit reports to the IEPA if necessary.

SPECIAL CONDITION 11. The Permittee has undergone a Monitoring Reduction review and the influent and effluent sample frequency has been reduced for parameters due to sustained compliance. The IEPA may require that the influent and effluent sampling frequency for these parameters be increased without Public Notice. This provision does not limit EPA's authority to require additional monitoring, information or studies pursuant to Section 308 of the CWA.



Special Conditions

SPECIAL CONDITION 12. During January of each year the Permittee shall submit annual fiscal data regarding sewerage system operations to the Illinois Environmental Protection Agency/Division of Water Pollution Control/Compliance Assurance Section. The Permittee may use any fiscal year period provided the period ends within twelve (12) months of the submission date.

Submission shall be on forms provided by IEPA titled "Fiscal Report Form For NPDES Permittees".

SPECIAL CONDITION 13. The level of the lagoon shall be recorded weekly. The monitoring wells shall be sampled quarterly for groundwater table elevation, nitrate/nitrite, ammonia nitrogen, chloride, sulfates, pH, and total dissolved solids. Reports showing the weekly lagoon levels, the amount of effluent applied to the spray field and the results of monitoring well sampling shall be submitted to Manager, Champaign Regional Office, Bureau of Water, Illinois Environmental Protection Agency, 2125 South First, Champaign, Illinois 61820 and received by that office by January 15, April 15, July 15, and October 15 each year. These reports shall also be submitted to the Permit Section, Division of Water Pollution Control, Springfield, Illinois.

SPECIAL CONDITION 14.

- A. Treated wastewater shall be applied to sites within the following guidelines:
  - 1. It shall not be applied to sites during precipitation.
  - 2. It shall not be applied to sites which are saturated or with ponded water.
  - 3. It shall not be applied by surface irrigation to ice or snow covered sites or when the ground is frozen.
- B. It is recommended that treated wastewater not be applied to the site when precipitation is imminent.

SPECIAL CONDITION 15.

The surface irrigation water application rate per day shall be as follows:

- A. From May 15 through October 1 the rate per day shall not exceed 1.0 inch per day. Any precipitation received during the 24 hour period prior to the wastewater irrigation must be subtracted from that day's 1.0 inch wastewater application rate in order to limit the water application rate to 1.0 inch per day.
- B. For the remainder of the irrigation season the rate per day shall not exceed 0.5 inches per day. Any precipitation received during the 24 hour period prior to the wastewater irrigation must be subtracted from that day's 0.5 inch wastewater application rate in order to limit the water application rate to 0.5 inches per day.

