

NPDES Permit No. IL0022233

Notice No. JCH:12051601.sed

Public Notice Beginning Date: **July 17, 2012**

Public Notice Ending Date: **August 16, 2012**

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 Permittee:

City of Petersburg  
P.O. Box 139  
Petersburg, IL 62675

Name and Address of Facility:

City of Petersburg STP  
East Route 123  
Petersburg, IL 62675  
(Menard 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 Permittee. 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 Jeff Hutton 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 Petersburg.

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, Sangamon River is 94.7 cfs.

The design average flow (DAF) for the facility is 0.5 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 1.25 MGD. Treatment consists of a 2 cell aerated lagoon followed by a rock filter and chlorination.

This 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 Menard County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

| Discharge Number | Receiving Stream | Latitude          | Longitude        | Stream Classification | Integrity Rating |
|------------------|------------------|-------------------|------------------|-----------------------|------------------|
| 001              | Sangamon River   | 40° 28' 00" North | 89° 59' 17" 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), segment E-24, 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    |
|------------------|------------------|
| PCBs             | Fish Consumption |
| Fecal Coliform   | Primary Contact  |

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 0.5 MGD (design maximum flow (DMF) of 1.25 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 LIMITS mg/L  |                           |               | Regulation                       |
|--------------------------------|--|----------------|---------------|----------------------------|---------------------------|---------------|----------------------------------|
|                                | Monthly Average                                | Weekly Average | Daily Maximum | Monthly Average            | Weekly Average            | Daily Maximum |                                  |
| CBOD <sub>5</sub>              | 104 (260)                                      | 167 (400)      |               | 25                         | 40                        |               | 35 IAC 304.120<br>40 CFR 133.102 |
| Suspended Solids               | 154 (370)                                      | 188 (450)      |               | 37                         | 45                        |               | 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                   |
|                                |  |                |               | Monthly Avg. not less than | Weekly Avg. not less than | Daily 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 x (Design Average and/or Maximum Flow in MGD) x (Applicable Concentration in mg/L).

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 applicable and are hereby incorporated by reference.
8. Effluent sampling point location.
9. At minimum of 85% removal of CBOD<sub>5</sub> and suspended solids.
10. Seasonal fecal coliform limits.
11. Submission of annual fiscal data.
12. The Permit may be modified based upon the results of a Total Maximum Daily Load Study or other Water Quality Study.



NPDES Permit No. IL0022233

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 Petersburg  
P.O. Box 139  
Petersburg, IL 62675

Facility Name and Address:

City of Petersburg STP  
East Route 123  
Petersburg, IL 62675  
(Menard County)

Receiving Waters: Sangamon River

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 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.

Alan Keller, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

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## NPDES Permit No. IL0022233

Effluent Limitations, Monitoring, and Reporting

FINAL

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

Load limits computed based on a design average flow (DAF) of 0.5 MGD (design maximum flow (DMF) of 1.25 MGD).

Excess flow facilities (if applicable) shall not be utilized until the main treatment facility is receiving its maximum practical flow.

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:

| <u>Parameter</u>               | <u>LOAD LIMITS lbs/day</u><br><u>DAF (DMF)*</u> |                                 |                                | <u>CONCENTRATION</u><br><u>LIMITS mg/L</u> |                                       |                                | <u>Sample</u><br><u>Frequency</u> | <u>Sample</u><br><u>Type</u> |
|--------------------------------|---|---------------------------------|--------------------------------|--|---------------------------------------|--------------------------------|-----------------------------------|------------------------------|
|                                | <u>Monthly</u><br><u>Average</u>                | <u>Weekly</u><br><u>Average</u> | <u>Daily</u><br><u>Maximum</u> | <u>Monthly</u><br><u>Average</u>           | <u>Weekly</u><br><u>Average</u>       | <u>Daily</u><br><u>Maximum</u> |                                   |                              |
| Flow (MGD)                     |   |                                 |                                |  |                                       |                                | Continuous                        |                              |
| CBOD <sub>5</sub> **           | 104 (260)                                       | 167 (400)                       |                                | 25   | 40                                    |                                | 2 Days/Month                      | Composite                    |
| Suspended Solids               | 154 (370)                                       | 188 (450)                       |                                | 37   | 45                                    |                                | 2 Days/Month                      | Composite                    |
| pH                             | Shall be in the range of 6 to 9 Standard Units  |                                 |                                |  |                                       |                                | 2 Days/Month                      | Grab                         |
| Fecal Coliform                 | Daily Maximum shall not exceed 400 per 100 mL   |                                 |                                |  |                                       |                                | 2 Days/Month                      | Grab                         |
| Chlorine Residual              |   |                                 |                                |  |                                       | 0.05                           | 2 Days/Month                      | Grab                         |
|                                |   |                                 |                                | 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/Month                      | Grab                         |
| August-February                |   |                                 |                                | 5.5  | 4.0                                   | 3.5                            | 2 Days/Month                      | 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.

\*\*\*See Special Condition 10.

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> | 2 Days/Month            | Composite          |
| Suspended Solids | 2 Days/Month            | 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, regulations, or judicial orders. 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 in the event of operational, maintenance or other problems resulting in possible effluent deterioration.

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 (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/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 eDMRs 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 applicable and are hereby incorporated 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. Final Conditions - For Discharge No. 001 BOD<sub>5</sub> and Suspended Solids (85% removal required): The arithmetic mean of the values for effluent samples collected in a period of one calendar month shall not exceed 15 percent of the arithmetic mean of the values for influent samples collected at approximately the same time during the same period, except during those periods when the influent is diluted because of high flows if the tributary sewer system is combined. The percent removal need not be reported to the IEPA on DMR's 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.

SPECIAL CONDITION 10. Fecal Coliform limits for Discharge Number 001 are effective May thru October. Sampling of Fecal Coliform is only required during this time period.

The total residual chlorine limit is applicable at all times. If the Permittee is chlorinating for any purpose during the months of November through April, sampling is required on a daily grab basis. Sampling frequency for the months of May through October shall be as indicated on effluent limitations, monitoring and reporting page of this Permit.

SPECIAL CONDITION 11. 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 Conditions

SPECIAL CONDITION 12. This Permit may be modified to include alternative or additional final effluent limitations pursuant to an approved Total Maximum Daily Load (TMDL) Study or upon completion of an alternate Water Quality Study.